BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

FIRST AND FINAL BILL

Name of work: Improvement to Roads, Drains and other Development Works in Kempegowda Nagara Calony and surrounding areas in Ward No.09 (Vidyaranyapura).

Estimated Cost : Rs. 99.50 Lakhs

Job Code: 009-20-000035

Head of Account : P-1878 Works (Bhagyajyothi, Sooru / Neeru Yojane and General)

Name of Agency: Executive Engineer, KRIDL, Bangalore.

Work order No: BBMP/EE/BTP/WO/197/2019-20 Dated: 01.02.2020.

Measurements Recarded on :

Sl No.	Description	Chinage	No.	L	B	Av. B	D	Qty	Rate / Unit	Amount
1	Dismantling of existing Reiforced cement concrete grade M-20 above structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications								Cum	
	Qty as per Premeasurement vide E-MB Page No. 01 is =							**29.25**	1684.34	**49267.00**
2	Removing & Refixing stone slabs of drains and pointing in C.M (1:3)								Cum	
	Qty as per Premeasurement vide E-MB Page No. 02 is =							**347.49**	111.30	**38676.00**
3	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications								Cum	
	Qty as per Premeasurement vide E-MB Page No. 03 to 05 is =							**919.28**	207.60	**190843.00**
4	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceding 0.02 cum in volume and stock pilling at designated locations and disposal of dismantled mateirals stacking serviceble and unserviceble materials seperatly complete as per specifications								Cum	
	Qty as per Premeasurement vide E-MB Page No. 06 is =							**59.10**	952.94	**56319.00**
5	Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 including cost and conveyance of all materials, labour for all items of work, HOM of equipment with all lead and lift, loading and unloading and all other incidental charges etc., complete as per specification and directions of the Engineer-in-charge of the								Cum	
	Qty as per Premeasurement vide E-MB Page No. 07 is =							**189.69**	475.94	**90281.00**
6	0400 Stone dust / Grit etc., complete as per specification and directions of the Engineer-in-charge of the work.								Cum	
	Qty as per Premeasurement vide E-MB Page No. 08 is =							**129.60**	1060.00	**137376.00**
7	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications								Cum	
	Qty as per Premeasurement vide E-MB Page No. 09 is =							**166.20**	2001.28	**332613.00**

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Divisio.
BBMP, Bangalore - 97

Sl No.	Description	Chinage		No.	L	B	Av. B	D	Qty	Rate / Unit	Amount
8	Providing and laying in position plain cement concrete of mix 1:3:6 with opc cement @220kgs with 20 mm and down size graded granite metal course aggregate @0.84cum and fine aggregates @0.56 cum machine mixed,laid in layers not exceeding 15cms thick well compacted in foundation,plinth and cills including cost of all materials,labour,HOM OF machinary, curing complete as per specification									Cum	
	Qty as per Premeasurement vide E-MB Page No. 10 to 11 is =								**153.41**	5421.90	**831774.00**
9	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.									Cum	
		For Aswath Katte									
	Foundation	0.00	15.00	1	15.00	0.75	0.75	0.60	6.75		
		15.00	28.00	1	13.00	0.75	0.75	0.60	5.85		
		0.00	15.00	1	15.00	0.60	0.60	0.60	5.40		
		15.00	28.00	1	13.00	0.60	0.60	0.60	4.68		
	Wall	0.00	15.00	1	15.00	0.60	0.60	1.20	10.80		
		15.00	28.00	1	13.00	0.60	0.60	1.20	9.36		
		For Aswath Katte									
	Steps 1	0.00	1.50	1	1.50	0.20	0.20	0.20	0.06		
	Steps 2	0.00	1.50	1	1.50	0.20	0.20	0.40	0.12		
	Steps 3	0.00	1.50	1	1.50	0.20	0.20	0.60	0.18		
		Culvert									
		0.00	5.00	2	5.00	0.60	0.60	0.90	5.40		
								Total Qty =	**48.60**		
								Qty Limited to =	**48.60**	5811.98	**282462.00**
10	Providing ruled pointing 20 mm deep to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications									Cum	
			2	5.00				0.90	9.00		
								Total Qty =	**9.00**		
								Qty Limited to =	**9.00**	150.52	**1355.00**
11	Providing precast slab of 250mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - (Rate Analysis Approved).									Cum	
			1	5.00			1.50		7.50		
								Total Qty =	**7.50**		
								Qty Limited to =	**7.50**	5418.00	**40635.00**
12	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications									Cum	
		Culvert Coping									
		0.00	5.00	1	5.00	1.50	1.50	0.10	0.75		
		Ramp									
		0.00	5.00	2	5.00	1.00	1.00	0.15	1.50		
		Packing concrete									
		0.00	15.00	1	15.00	0.15	0.15	0.10	0.23		
		15.00	30.00	1	15.00	0.15	0.15	0.10	0.23		
		30.00	45.00	1	15.00	0.15	0.15	0.10	0.23		
		45.00	60.00	1	15.00	0.15	0.15	0.10	0.23		
		60.00	75.00	1	15.00	0.15	0.15	0.10	0.23		
		75.00	90.00	1	15.00	0.15	0.15	0.10	0.23		
		90.00	105.00	1	15.00	0.15	0.15	0.10	0.23		
		105.00	120.00	1	15.00	0.15	0.15	0.10	0.23		
		120.00	135.00	1	15.00	0.15	0.15	0.10	0.23		
		135.00	150.00	1	15.00	0.15	0.15	0.10	0.23		
		150.00	165.00	1	15.00	0.15	0.15	0.10	0.23		

Assistant Executive Engineer
Vidyaranyapura Sub Division
YBMP, Bangalore - 97

Assistant Engineer

Assistant Executive Engineer

Sl No.	Description	Chinage		No.	L	B	Av. B	D	Qty	Rate / Unit	Amount
		165.00	180.00	1	15.00	0.15	0.15	0.10	0.23		
		180.00	195.00	1	15.00	0.15	0.15	0.10	0.23		
		195.00	203.00	1	8.00	0.15	0.15	0.10	0.12		
		For vent									
	1st Cross Road	0.00	15.00	1	15.00	0.60	0.60	0.10	0.90		
		15.00	30.00	1	15.00	0.60	0.60	0.10	0.90		
		30.00	45.00	1	15.00	0.60	0.60	0.10	0.90		
		45.00	60.00	1	15.00	0.60	0.60	0.10	0.90		
		60.00	75.00	1	15.00	0.60	0.60	0.10	0.90		
		75.00	90.00	1	15.00	0.60	0.60	0.10	0.90		
		90.00	105.00	1	15.00	0.60	0.60	0.10	0.90		
		105.00	120.00	1	15.00	0.60	0.60	0.10	0.90		
		120.00	135.00	1	15.00	0.60	0.60	0.10	0.90		
		135.00	150.00	1	15.00	0.60	0.60	0.10	0.90		
		150.00	165.00	1	15.00	0.60	0.60	0.10	0.90		
		165.00	180.00	1	15.00	0.60	0.60	0.10	0.90		
		180.00	195.00	1	15.00	0.60	0.60	0.10	0.90		
		195.00	203.00	1	8.00	0.60	0.60	0.10	0.48		
		0.00	15.00	1	15.00	0.60	0.60	0.10	0.90		
		15.00	30.00	1	15.00	0.60	0.60	0.10	0.90		
		30.00	45.00	1	15.00	0.60	0.60	0.10	0.90		
		45.00	60.00	1	15.00	0.60	0.60	0.10	0.90		
		60.00	75.00	1	15.00	0.60	0.60	0.10	0.90		
		75.00	90.00	1	15.00	0.60	0.60	0.10	0.90		
		90.00	105.00	1	15.00	0.60	0.60	0.10	0.90		
		105.00	109.09	1	4.09	0.60	0.60	0.10	0.25		
		2nd cross Road									
		0.00	15.00	2	15.00	0.60	0.60	0.10	1.80		
		15.00	30.00	2	15.00	0.60	0.60	0.10	1.80		
		30.00	45.00	2	15.00	0.60	0.60	0.10	1.80		
		45.00	60.00	2	15.00	0.60	0.60	0.10	1.80		
		60.00	75.00	2	15.00	0.60	0.60	0.10	1.80		
		75.00	90.00	2	15.00	0.60	0.60	0.10	1.80		
		90.00	105.00	2	15.00	0.60	0.60	0.10	1.80		
		105.00	120.00	2	15.00	0.60	0.60	0.10	1.80		
		120.00	135.00	2	15.00	0.60	0.60	0.10	1.80		
		135.00	150.00	2	15.00	0.60	0.60	0.10	1.80		
		150.00	165.00	2	15.00	0.60	0.60	0.10	1.80		
		165.00	180.00	2	15.00	0.60	0.60	0.10	1.80		
		180.00	195.00	2	15.00	0.60	0.60	0.10	1.80		
		195.00	210.00	2	15.00	0.60	0.60	0.10	1.80		
		210.00	225.00	2	15.00	0.60	0.60	0.10	1.80		
		225.00	240.00	2	15.00	0.60	0.60	0.10	1.80		
		240.00	255.00	2	15.00	0.60	0.60	0.10	1.80		
		255.00	270.00	2	8.00	0.60	0.60	0.10	0.96		
		270.00	276.19	2	10.19	0.60	0.60	0.10	1.22		
		For ashwath Katte flooring									
		0.00	8.00	1	8.00	6.00	6.00	0.10	4.80		
								Total Qty =	**61.60**		
								Qty Limited to =	**61.60**	5747.32	**354035.00**
13	Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. **TMT bars Fe 500**									Tonne	
	Qty as per Premeasurement vide E-MB Page No. 12 is =								**9.26**	75223.96	**696574.00**
14	Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications.									Sqm	
	Qty as per Premeasurement vide E-MB Page No. 013 to 14 is =								**1548.83**	379.48	**587750.00**

Assistant Engineer

Assistant Executive Engineer

Sl No.	Description	Chinage		No.	L	B	Av. B	D	Qty	Rate / Unit	Amount
15	Providing and laying in position reinforced cement concrete of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications.									Cum	
	Raft										
	Kempegowda Nagar Colony										
		0.00	15.00	1	15.00	0.75	0.75	0.15	1.69		
		15.00	30.00	1	15.00	0.75	0.75	0.15	1.69		
		30.00	45.00	1	15.00	0.75	0.75	0.15	1.69		
		45.00	60.00	1	15.00	0.75	0.75	0.15	1.69		
		60.00	75.00	1	15.00	0.75	0.75	0.15	1.69		
		75.00	84.00	1	9.00	0.75	0.75	0.15	1.01		
		84.00	99.00	1	15.00	0.75	0.75	0.15	1.69		
		99.00	105.70	1	6.70	0.75	0.75	0.15	0.75		
		105.70	108.20	1	2.50	0.75	0.75	0.15	0.28		
		108.20	118.20	1	10.00	0.75	0.75	0.15	1.13		
	1st Cross Road										
		0.00	15.00	1	15.00	0.90	0.90	0.15	2.03		
		15.00	30.00	1	15.00	0.90	0.90	0.15	2.03		
		30.00	45.00	1	15.00	0.90	0.90	0.15	2.03		
		45.00	60.00	1	15.00	0.90	0.90	0.15	2.03		
		60.00	75.00	1	15.00	0.90	0.90	0.15	2.03		
		75.00	90.00	1	15.00	0.90	0.90	0.15	2.03		
		90.00	93.91	1	3.91	0.90	0.90	0.15	0.53		
	Wall										
	Kempegowda Nagar Colony										
		0.00	15.00	2	15.00	0.15	0.15	0.60	2.70		
		15.00	30.00	2	15.00	0.15	0.15	0.60	2.70		
		30.00	45.00	2	15.00	0.15	0.15	0.60	2.70		
		45.00	60.00	2	15.00	0.15	0.15	0.60	2.70		
		60.00	75.00	2	15.00	0.15	0.15	0.60	2.70		
		75.00	84.00	2	9.00	0.15	0.15	0.60	1.62		
		84.00	99.00	2	15.00	0.15	0.15	0.60	2.70		
		99.00	105.70	2	6.70	0.15	0.15	0.60	1.21		
		105.70	108.20	2	2.50	0.15	0.15	0.60	0.45		
		108.20	118.20	2	10.00	0.15	0.15	0.60	1.80		
	1st Cross Road										
		0.00	15.00	2	15.00	0.15	0.15	0.60	2.70		
		15.00	30.00	2	15.00	0.15	0.15	0.60	2.70		
		30.00	45.00	2	15.00	0.15	0.15	0.60	2.70		
		45.00	60.00	2	15.00	0.15	0.15	0.60	2.70		
		60.00	75.00	2	15.00	0.15	0.15	0.60	2.70		
		75.00	90.00	2	15.00	0.15	0.15	0.60	2.70		
		90.00	93.91	2	3.91	0.15	0.15	0.60	0.70		
	For Rising										
	1st Cross Road	0.00	15.00	2	15.00	0.15	0.15	0.30	1.35		
		15.00	30.00	2	15.00	0.15	0.15	0.30	1.35		
		30.00	45.00	2	15.00	0.15	0.15	0.30	1.35		
		45.00	60.00	2	15.00	0.15	0.15	0.30	1.35		
		60.00	75.00	2	15.00	0.15	0.15	0.30	1.35		
		75.00	90.00	2	15.00	0.15	0.15	0.30	1.35		
		90.00	105.00	2	15.00	0.15	0.15	0.30	1.35		
		105.00	120.00	2	15.00	0.15	0.15	0.30	1.35		
		120.00	135.00	2	15.00	0.15	0.15	0.30	1.35		
		135.00	150.00	2	15.00	0.15	0.15	0.30	1.35		
		150.00	165.00	2	15.00	0.15	0.15	0.30	1.35		
		165.00	180.00	2	15.00	0.15	0.15	0.30	1.35		
		180.00	195.00	2	15.00	0.15	0.15	0.30	1.35		
		195.00	203.00	2	8.00	0.15	0.15	0.30	0.72		
	1st Cross Road										
	1st Cross Road	0.00	15.00	2	15.00	0.15	0.15	0.30	1.35		

Assistant Engineer

Assistant Executive Engineer

Sl No.	Description	Chinage		No.	L	B	Av. B	D	Qty	Rate / Unit	Amount
	1st Cross Road	15.00	30.00	2	15.00	0.15	0.15	0.30	1.35		
		30.00	45.00	2	15.00	0.15	0.15	0.30	1.35		
		45.00	60.00	2	15.00	0.15	0.15	0.30	1.35		
		60.00	75.00	2	15.00	0.15	0.15	0.30	1.35		
		75.00	90.00	2	15.00	0.15	0.15	0.30	1.35		
		90.00	105.00	2	15.00	0.15	0.15	0.30	1.35		
		105.00	109.09	2	4.09	0.15	0.15	0.30	0.37		
	Cross Road-2	0.00	15.00	4	15.00	0.15	0.15	0.30	2.70		
		15.00	30.00	4	15.00	0.15	0.15	0.30	2.70		
		30.00	45.00	4	15.00	0.15	0.15	0.30	2.70		
		45.00	60.00	4	15.00	0.15	0.15	0.30	2.70		
		60.00	75.00	4	15.00	0.15	0.15	0.30	2.70		
		75.00	90.00	4	15.00	0.15	0.15	0.30	2.70		
		90.00	105.00	4	15.00	0.15	0.15	0.30	2.70		
		105.00	120.00	4	15.00	0.15	0.15	0.30	2.70		
		120.00	135.00	4	15.00	0.15	0.15	0.30	2.70		
		135.00	150.00	4	15.00	0.15	0.15	0.30	2.70		
		150.00	165.00	4	15.00	0.15	0.15	0.30	2.70		
		165.00	180.00	4	15.00	0.15	0.15	0.30	2.70		
		180.00	195.00	4	15.00	0.15	0.15	0.30	2.70		
		195.00	210.00	4	15.00	0.15	0.15	0.30	2.70		
		210.00	225.00	4	15.00	0.15	0.15	0.30	2.70		
		225.00	240.00	4	15.00	0.15	0.15	0.30	2.70		
		240.00	255.00	4	15.00	0.15	0.15	0.30	2.70		
		255.00	270.00	4	15.00	0.15	0.15	0.30	2.70		
		270.00	276.19	4	7.19	0.15	0.15	0.30	1.29		
								Total Qty =	**142.14**		
								Qty Limited to =	**142.14**	5998.54	**852632.00**
16	Construction of un-reinforced plain cement concrete pavement, using grade concrete M30 over a prepared base with OPC course aggregate at 0.69 cum fine aggregates at 0.46 cum course and fine aggregtes confirming to IS : 383-2016, with superplastisiser @3lts confirming to IS9103-1999 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. (with OPC 320Kg per cum GGBS 40 Kg/cum confirming to IS: 12089 course aggregate @ 0.69cum and fine aggregate @ 0.46cum)									Cum	
	For CC Road										
	Kempegowda Nagar Colony										
		0.00	15.00	1	15.00	3.00	3.00	0.15	6.75		
		15.00	30.00	1	15.00	3.00	3.00	0.15	6.75		
		30.00	45.00	1	15.00	3.00	3.00	0.15	6.75		
		45.00	60.00	1	15.00	3.00	3.00	0.15	6.75		
		60.00	75.00	1	15.00	3.00	3.00	0.15	6.75		
		75.00	90.00	1	15.00	3.00	3.00	0.15	6.75		
		90.00	105.00	1	15.00	3.00	3.00	0.15	6.75		
		105.00	120.00	1	15.00	3.00	3.00	0.15	6.75		
	arround ashwath katte										
		0.00	15.00	1	15.00	2.00	2.00	0.15	4.50		
		15.00	30.00	1	15.00	2.00	2.00	0.15	4.50		
	Krishna achari Road										
		0.00	15.00	1	15.00	3.50	3.50	0.15	7.88		
		15.00	30.00	1	15.00	3.50	3.50	0.15	7.88		
		30.00	45.00	1	15.00	3.50	3.50	0.15	7.88		
		45.00	55.00	1	10.00	3.50	3.50	0.15	5.25		
								Total Qty =	**91.88**		
								Qty Limited Tender Qty =	**91.88**	5128.28	**471186.00**

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Assistant Engineer

Assistant Executive Engineer

Sl No.	Description	Chinage		No.	L	B	Av. B	D	Qty	Rate / Unit	Amount
17	Providing and laying pre-cast drain cover slabs of 100mm thickness in C.M (1:3) including cost and of all materials, labour,curing transportaion loading and unloading etc. as per directions of the Engineer-in-charge of the work.									Sqm	
		Kempegowda Nagar Colony									
		0.00	15.00	1	15.00	0.75	0.75		11.25		
		15.00	30.00	1	15.00	0.75	0.75		11.25		
		30.00	45.00	1	15.00	0.75	0.75		11.25		
		45.00	60.00	1	15.00	0.75	0.75		11.25		
		60.00	75.00	1	15.00	0.75	0.75		11.25		
		75.00	84.00	1	9.00	0.75	0.75		6.75		
		84.00	99.00	1	15.00	0.75	0.75		11.25		
		99.00	105.70	1	6.70	0.75	0.75		5.03		
		105.70	108.20	1	2.50	0.75	0.75		1.88		
		108.20	118.20	1	10.00	0.75	0.75		7.50		
		1st Cross Road									
		0.00	15.00	1	15.00	0.90	0.90		13.50		
		15.00	30.00	1	15.00	0.90	0.90		13.50		
		30.00	45.00	1	15.00	0.90	0.90		13.50		
		45.00	60.00	1	15.00	0.90	0.90		13.50		
		60.00	75.00	1	15.00	0.90	0.90		13.50		
		75.00	90.00	1	15.00	0.90	0.90		13.50		
		90.00	93.91	1	3.91	0.90	0.90		3.52		
		Missing									
		0.00	15.00	1	15.00	0.75	0.75		11.25		
		15.00	30.00	1	15.00	0.75	0.75		11.25		
		30.00	45.00	1	15.00	0.75	0.75		11.25		
		45.00	60.00	1	15.00	0.75	0.75		11.25		
		60.00	75.00	1	15.00	0.75	0.75		11.25		
		75.00	84.00	1	9.00	0.75	0.75		6.75		
		84.00	99.00	1	15.00	0.75	0.75		11.25		
		99.00	100.00	1	1.00	0.75	0.75		0.75		
		For Rising									
	1st Cross Road	0.00	15.00	1	15.00	0.90	0.90		13.50		
		15.00	30.00	1	15.00	0.90	0.90		13.50		
		30.00	45.00	1	15.00	0.90	0.90		13.50		
		45.00	60.00	1	15.00	0.90	0.90		13.50		
		60.00	75.00	1	15.00	0.90	0.90		13.50		
		75.00	90.00	1	15.00	0.90	0.90		13.50		
		90.00	105.00	1	15.00	0.90	0.90		13.50		
		105.00	120.00	1	15.00	0.90	0.90		13.50		
		120.00	135.00	1	15.00	0.90	0.90		13.50		
		135.00	150.00	1	15.00	0.90	0.90		13.50		
		150.00	165.00	1	15.00	0.90	0.90		13.50		
		165.00	180.00	1	15.00	0.90	0.90		13.50		
		180.00	195.00	1	15.00	0.90	0.90		13.50		
		195.00	203.00	1	8.00	0.90	0.90		7.20		
		1st Cross Road									
	1st Cross Road	0.00	15.00	1	15.00	0.90	0.90		13.50		
		15.00	30.00	1	15.00	0.90	0.90		13.50		
		30.00	45.00	1	15.00	0.90	0.90		13.50		
		45.00	60.00	1	15.00	0.90	0.90		13.50		
		60.00	75.00	1	15.00	0.90	0.90		13.50		
		75.00	90.00	1	15.00	0.90	0.90		13.50		
		90.00	105.00	1	15.00	0.90	0.90		13.50		
		105.00	109.09	1	4.09	0.90	0.90		3.68		
		For Missing Damage									
	Cross Road	0.00	15.00	1	15.00	0.90	0.90		13.50		
		15.00	30.00	1	15.00	0.90	0.90		13.50		
		30.00	45.00	1	15.00	0.90	0.90		13.50		
		45.00	60.00	1	15.00	0.90	0.90		13.50		
		60.00	75.00	1	15.00	0.90	0.90		13.50		
		75.00	90.00	1	15.00	0.90	0.90		13.50		
		90.00	105.00	1	15.00	0.90	0.90		13.50		
		105.00	120.00	1	15.00	0.90	0.90		13.50		

Checked

Assistant Executive Engineer, Vidyaranyapura Sub Division, BWSSB, Bangalore-97

Assistant Engineer

Assistant Executive Engineer

Sl No.	Description	Chinage		No.	L	B	Av. B	D	Qty	Rate / Unit	Amount
		120.00	135.00	1	22.00	0.90	0.90		19.80		
		135.00	149.14	1	24.14	0.90	0.90		21.73		
								Total Qty =	**678.58**		
								Qty Limited Tender Qty =	**678.58**	2337.00	**1585841.00**
18	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification									Sqm	
	For Ashwath Katte										
	Rough Plastering										
	Side Walls	0.00	2.00		2.00	8.00		1.00	16.00		
		0.00	2.00		2.00	6.00		1.00	12.00		
								Total Qty =	**28.00**		
								Qty Limited Tender Qty =	**28.00**	306.34	**8578.00**
19	Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications.									Sqm	
	Qty as per Premeasurement vide E-MB Page No. 015 is =								**72.00**	344.50	**24804.00**
20	Providing and fixing of wall cladding using 20 mm thick gang saw water cut granite in CM 1:3 proportion cut to required shape patron with paper joint finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm × 12mm grooves in joints including curing etc., complete - with Sadarahalli granite 20mm thick gang saw with minimum width 1200									Sqm	
	For Ashwath Katte										
	For flooring										
		0.00	1.00		1.00	8.00	6.00		48.00		
	Cladding										
		0.00	2.00		2.00	8.00		1.00	16.00		
		0.00	2.00		2.00	6.00		1.00	12.00		
	For Steps										
	Rise	0.00	3.00		3.00	1.50		0.20	0.90		
	Thred	0.00	3.00		3.00	1.50	0.20		0.90		
	Sides	0.00	2.00		2.00	0.20		0.20	0.08		
		0.00	2.00		2.00	0.20		0.40	0.16		
		0.00	2.00		2.00	0.20		0.60	0.24		
								Total Qty =	**78.28**		
								Qty Limited Tender Qty =	**78.28**	2291.72	**179396.00**
21	Providing and fixing stainless steel 304 grade for staircase railings, balconies, ramps, with hand rail, 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of and electrical charges, etc., complete as per specifications									Sqm	
	For Ashwath Katte										
	Arround										
		0.00	2.00		2.00	8.00		1.20	19.20		
		0.00	2.00		2.00	6.00		1.20	14.40		
	For Steps										
		0.00	2.00		2.00	2.00		1.20	4.80		
	Deduction For Open										
		0.00	2.00		-1.00	2.50		1.20	-3.00		
								Total Qty =	**35.40**		
								Qty Limited Tender Qty =	**35.40**	6382.28	**225932.00**
22	Cutting road surface for pipe line trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc.,in the following qualifications Concrete road									Cum	
	For Sanitary Line										
		0.00	15.00	1	15.00	1.00	1.00	0.20	3.00		
		15.00	30.00	1	15.00	1.00	1.00	0.20	3.00		
		30.00	45.00	1	15.00	1.00	1.00	0.20	3.00		

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Assistant Engineer

Assistant Executive Engineer

Sl No.	Description	Chinage		No.	L	B	Av. B	D	Qty	Rate / Unit	Amount
		45.00	60.00	1	15.00	1.00	1.00	0.20	3.00		
		60.00	75.00	1	15.00	1.00	1.00	0.20	3.00		
		75.00	90.00	1	15.00	1.00	1.00	0.20	3.00		
		90.00	105.00	1	15.00	1.00	1.00	0.20	3.00		
		105.00	120.00	1	15.00	1.00	1.00	0.20	3.00		
		120.00	135.00	1	15.00	1.00	1.00	0.20	3.00		
		135.00	150.00	1	15.00	1.00	1.00	0.20	3.00		
		150.00	165.00	1	15.00	1.00	1.00	0.20	3.00		
		165.00	180.00	1	15.00	1.00	1.00	0.20	3.00		
		180.00	195.00	1	15.00	1.00	1.00	0.20	3.00		
		195.00	205.00	1	10.00	1.00	1.00	0.20	2.00		
		Deduction For MH									
		0.00	2.18	-8	2.18	1.00	1.00	0.20	-3.49		
		For Water Line									
		0.00	15.00	1	15.00	0.60	0.60	0.20	1.80		
		15.00	30.00	1	15.00	0.60	0.60	0.20	1.80		
		30.00	45.00	1	15.00	0.60	0.60	0.20	1.80		
		45.00	60.00	1	15.00	0.60	0.60	0.20	1.80		
		60.00	75.00	1	15.00	0.60	0.60	0.20	1.80		
		75.00	90.00	1	15.00	0.60	0.60	0.20	1.80		
		90.00	105.00	1	15.00	0.60	0.60	0.20	1.80		
		105.00	120.00	1	15.00	0.60	0.60	0.20	1.80		
		House Service Connection 60 Nos x 3.00m									
		0.00	15.00	1	15.00	0.40	0.40	0.20	1.20		
		15.00	30.00	1	15.00	0.40	0.40	0.20	1.20		
		30.00	45.00	1	15.00	0.40	0.40	0.20	1.20		
		45.00	60.00	1	15.00	0.40	0.40	0.20	1.20		
		60.00	75.00	1	15.00	0.40	0.40	0.20	1.20		
		75.00	90.00	1	15.00	0.40	0.40	0.20	1.20		
		90.00	105.00	1	15.00	0.40	0.40	0.20	1.20		
		105.00	120.00	1	15.00	0.40	0.40	0.20	1.20		
		120.00	135.00	1	15.00	0.40	0.40	0.20	1.20		
		135.00	150.00	1	15.00	0.40	0.40	0.20	1.20		
		150.00	165.00	1	15.00	0.40	0.40	0.20	1.20		
		165.00	180.00	1	15.00	0.40	0.40	0.20	1.20		
								Total Qty =	66.31		
								Qty Limited Tender Qty =	66.31	1033.00	**68498.00**
23	Earthwork excavation for pipeline trenches (except building works) including disposing on back up to a lead of 30 mts including danger lighting and using sight rails and boning roads including shoring, strutting, bailing out water at every 100 mts. Wherever necessary as directed in the following strata									Sqm	
	Qty as per Premeasurement vide E-MB Page No. 016 is =								**323.94**	558.54	**180933.00**
23 A	Earthwork excavation for pipeline trenches (except building works) including disposing on back up to a lead of 30 mts including danger lighting and using sight rails and boning roads including shoring, strutting, bailing out water at every 100 mts. Wherever necessary as directed in the following strata Hard Rock									Sqm	
	Qty as per Premeasurement vide E-MB Page No. 017 is =								**138.88**	1487.00	**206515.00**
24	Supplying of following Dia meters S&S RCC SPUN/VIBRATED CASTPIPES (REINFORCED) of458;1998 amendments NP- 3 class conforming to IS using ordinary port land cement and conveying to worksite rolling and lowering into trenches, laying true to line and level including loading and unloading at both destinations and jointing of pipes & specials including cost of specials including perfect linking of joints with jack to correct position including coat of jointing materials i.e., Rubber rings conforming to IS 5382 for S&S RCCpipes with a lead and lifts as RCC pipes with a lead and lifts as directed and giving necessary hydraulic testing & commissioning etc, complete(contracter will make hisown arrangements for procuring water for testing)before execution of work, contractor shall carry out the contractor shall carry out the survy and will be paid extrass per the sapearte item									Rmtrs	
	Qty as per Premeasurement vide E-MB Page No. 018 is =								**213.40**	1659.00	**354031.00**

Assistant Executive Engineer
Vijayanyapura Sub Division
BBMP, Bangalore - 97

Assistant Engineer

Assistant Executive Engineer

Sl No.	Description	Chinage	No.	L	B	Av. B	D	Qty	Rate / Unit	Amount
25	Constructing brick masonry circular type manhole 0.91m internal dia at bottom and 0.56m dia at top with table moulded nonmodular bricks of 50 class designation 50 in cement mortar 1:4, inside cement plastered 12mm thick with cement mortar 1:3, finished with a floating coat of neat cement, foundation concrete M 10 using 40mm and downsize granite metal and making necessary channel in cement concrete M 50 with 20mm and downsize granite metal finished with a floating coat of neat cement, with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diametre confirming IS :12592, total weight cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4, 20mm and downsize broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM complete as per specifications. (Excavation, footrests and 12mm								Sqm	
		0.91m Deep								
		0.00	8.00	1	8.00			8.00		
							Qty Limited approved Qty =	**8.00**	15587.30	**124698.00**
26	Constructing brick masonry circular type manhole 0.91m internal dia at bottom and 0.56m dia at top with table moulded nonmodular bricks of 50 class designation 50 in cement mortar 1:4, inside cement plastered 12mm thick with cement mortar 1:3, finished with a floating coat of neat cement, foundation concrete M 10 using 40mm and downsize granite metal and making necessary channel in cement concrete M 50 with 20mm and downsize granite metal finished with a floating coat of neat cement, with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diametre confirming IS :12592, total weight cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4, 20mm and downsize broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM complete as per specifications. (Excavation, footrests and 12mm thick cement plaster on the external surface shall be paid separately)								Rmts	
		1.67m Deep								
		0.00	13.00	1	13.00			13.00		
							Qty Limited approved Qty =	**13.00**	25741.04	**334634.00**
27	Providing 15mm thick cement plaster in single coat with cement mortar to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications								Sqm	
		0.00	8.00	1.00	8.00	1.20	1.20	1.50	14.40	
		0.00	13.00	1	13.00	1.20	1.20	1.50	23.40	
								Total Qty =	**37.80**	
								Qty Limited Tender Qty =	**37.80**	248.04	**9376.00**
28	Providing and fixing chorinated poly vinyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work)								Sqm	
	Qty as per Premeasurement vide E-MB Page No. 019 is =							**140.00**	457.92	**64109.00**
29	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwedd end) nominal bore including cost of all materials, labour and HOM with all leads complete as per specifications								Nos	
			6					6.00		
								Total Qty =	**6.00**	
								Qty Limited Tender Qty =	**6.00**	248.04	**1488.00**
30	C.P Brass tap with union								Nos	
			60					60.00		
								Total Qty =	**60.00**	
								Qty Limited Tender Qty =	**60.00**	269.24	**16154.00**
31	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications								Cum	
								Qty Vide Item No. 16+17	**370.24**	
								Qty Limited Tender Qty =	**370.24**	128.26	**47487.00**

Assistant Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Divi
BBMP Bangalore - 97

Assistant Executive Engineer

Sl No.	Description	Chinage	No.	L	B	Av. B	D	Qty	Rate / Unit	Amount
32	Dismantling the damaged or collapsed manholes of 1.20Mtrs dia conical in shape and reconstruction of the same with machine made wire cut brick in shape 1:4 as per design and specification of new manholes of 1:2 Mtrs dia with old frames and covers excluding concrete 1:3:6								Sqm	
	Qty as per Premeasurement vide E-MB Page No. 20 is =							**4.00**	12694.00	**50776.00**
33	Dismantling the damaged or collapsed manholes of 1.20Mtrs dia conical in shape and reconstruction of the same with machine made wire cut brick in shape 1:4 as per design and specification of new manholes of 1:2 Mtrs dia with old frames and covers excluding concrete 1:3:6								Sqm	
	Qty as per Premeasurement vide E-MB Page No. 21 is =							**9.00**	6500.00	**58500.00**
	Sub Total									**8555528.00**
	GST @ 12%									**1026663.00**
	KRIDL Charges @ 4%									**342221.00**
									Total	**9924412.00**

Rupees Ninety Nine Lakh(s) Twenty Four Thousand Four Hundred Twelve Only

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97